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MULTIMOBIL 2.5

SP

Pre-Installation

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Multimobil 2.5

Med

Pre-installation Instructions

Version: 6.0

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1 Pre Installation

1.1 TECHNICAL SPECIFICATIONS

Sr.No	Parameter	Value
1.	Rated Mains Voltage	190 - 240 V~
2.	Line frequency	50 Hz , ± 2 Hz
3.	Line fuses	16 A delayed fuse.
4.	Line impedance	1.5 Ω max
5.	Length of power cable	5 m
6.	Power Output Nominal Electric power at 100kV and 100mSec.	2.5 kW (100 kV, 25 mA)
7.	Wave Shape	Multipulse - Ripple 5kV max
8.	kVp Range	40 - 100kV in 20 steps
9.	Nominal kV	100 kV for DSA-7, SR 100/20 & FA 100/20 110 kV for OX 110-1
10.	kV Accuracy	≤ ± 5 %
11.	mA-range	13 – 63 mA
12.	mAs Range	0.32 - 200mAs at 40kV
13.		0.32 - 160mAs at 42 - 50kV
14.		0.32 - 125mAs at 52 - 63kV
15.		0.32 - 100mAs at 66 - 77kV
16.		0.32 - 80 mAs at 81 - 100kV
		For details of kV, mA and exposure time combinations as per IEC 60601-2-7 refer to the exposure chart on page 1-6.
17.	mAs Accuracy	≤ 10 % + 0.2 mAs for mAs ≤ 20 mAs
		≤ 5 % + 0.2 mAs for mAs > 20 mAs
18.	Exposure Time	20mSec - 5 Sec in 24 steps
19.	X - ray Tube	Stationary Anode DSA –7 / OX 110-1 / SR100/20 / FA 100/20
20.	Focal Spot – nominal value	1.4 IEC-336 for DSA-7 1.5 IEC-336 for OX/110-1

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Sr.No	Parameter	Value
		1.4 IEC-336 for SR 100/20 1.4 IEC-336 for FA 100/20
21.	Anode angle	14° for DSA –7 19 ° for OX/110-1 14° for SR 100/20 14° for FA 100/20
22.	Inherent Tube Filteration	1.5 mm Al for DSA -7 0.5 mm Al for OX/110-1 1.5 mm Al for SR 100/20 0.9 mm Al for FA 100/20
		Refer to the tube data sheet.
23.	Application	Radiographic operation, according to exposure table
24.	Mode of Operation	Continuous operation with intermittent loading
25.	Collimator	Manually adjustable, Double Slot
26.	Light localizer	Halogen light Bulb12V, 100 W; 100 Lux at 1m SID .
27.	SID range	Min: 520mm (+/- 20mm) Max: 1960mm (+/- 20mm)
28.	Light Field at 1 m SID	17“ X 17“
29.	Max. cassette size at 1m SID	17“ X 17“
30.	X-ray coverage at 1m SID	17“ X 17“
31.	Total Filteration of the X-ray source assembly with collimator	3.0 mm Al for DSA –7 2.8 mm Al for OX 110-1 3.4 mm Al for SR 100/20 3.0 mm of Al for FA 100/20
32.	Exposure Switch	2 Step, 5m cable
33.	Exposure Rate	Pulse-to-pause ratio 1:30; corresponds to a cool down period of 3 minutes at maximum output.
34.	Power Input : Momentary input Long-time input	 3.00 KVA. (± 10%) 0.5 KVA. (± 10%)
35.	Mains Isolation	**Power supply cord shall be plugged in where Both poles (L &**

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Sr.No	Parameter	Value
	External : done by the user.	**N) are isolated simultaneously using ON/OFF switch with protective earth.**
36.	Cassette Compartment	Maximum space
37.	Weight	
	Total without Packing	approx. 147 kg.
	Total with Packing	approx. 245 kg.
38.	Max. floor incline for transport	5°
39.	Type and degree of protection against electrical shock	Class – I , Type B Equipment.

1.2 Information for Room Planning

No specific conditions required. Following are the recommended room conditions for proper functioning of the unit.

Ambient Temperature (Room temperature):Min – 20 °C, Max + 40 °C
Air Humidity: in the range of 30% to 75%, Non-condensing.

During Transport and storage of all products the ambient temperature should not be below -20°C or rise above +55°C. Storage is permissible in rooms with minimum amount of dust and Humidity Upto 95% RH provided no condensation occurs.

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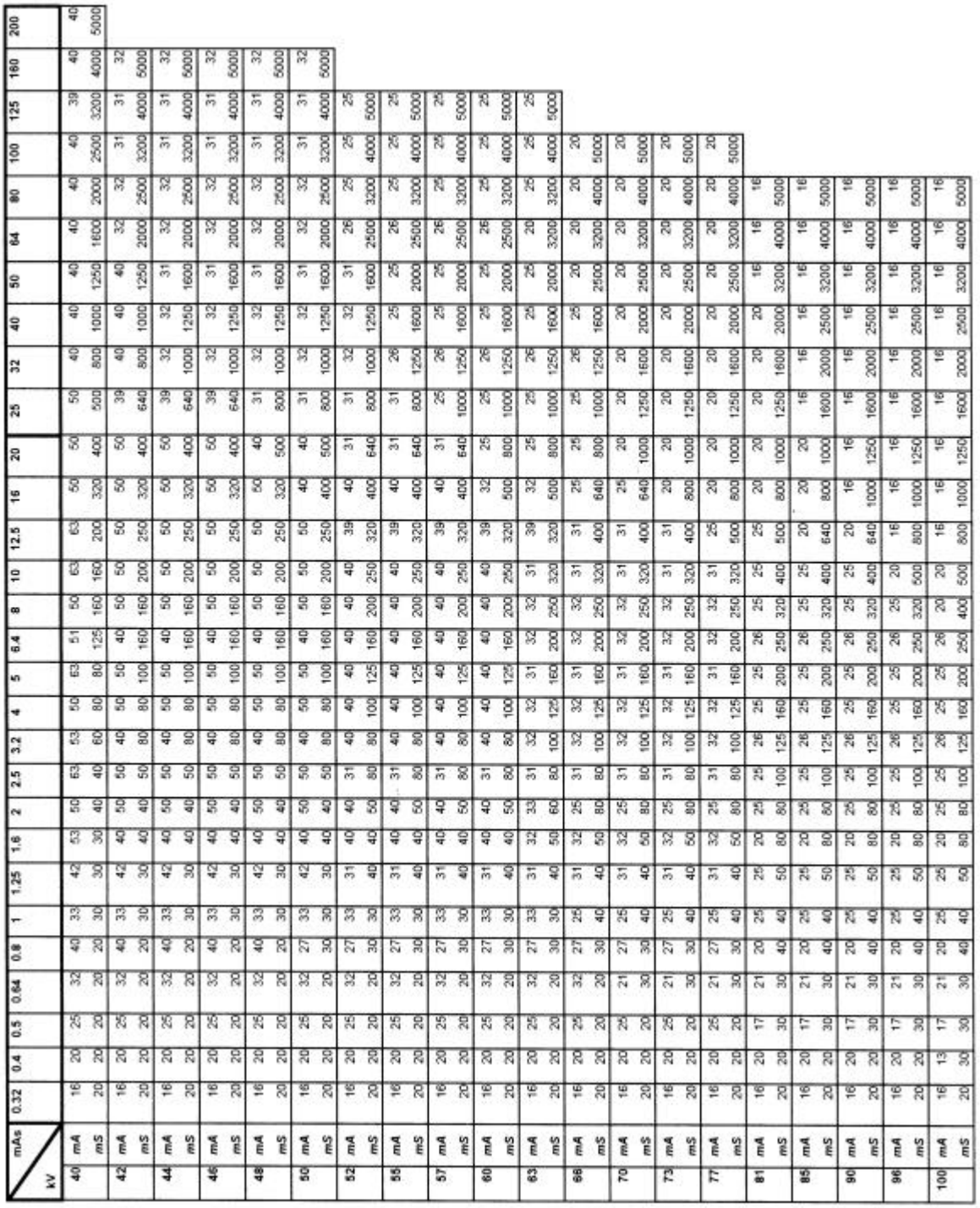
1.3 Exposure Chart



kV	mAs	0.32	0.4	0.5	0.64	0.8	1	1.25	1.6	2	2.5	3.2	4	5	6.4	8	10	12.5	16	20	25	32	40	50	64	80	100	125	160	200
40	mA	16	20	25	32	40	33	42	53	50	63	53	50	63	51	50	63	63	50	50	50	40	40	40	40	40	40	39	40	40
	mS	20	20	20	20	20	30	30	40	40	80	80	80	80	125	160	160	200	320	400	500	800	1000	1250	1600	2000	2500	3200	4000	5000
42	mA	16	20	25	32	40	33	42	53	50	63	53	50	63	51	50	63	63	50	50	50	40	40	40	40	32	32	31	32	32
	mS	20	20	20	20	20	30	30	40	40	80	80	80	100	160	160	160	200	320	400	500	800	1000	1250	1600	2000	2500	3200	4000	5000
44	mA	16	20	25	32	40	33	42	53	50	63	53	50	63	51	50	63	63	50	50	50	40	40	40	40	32	32	31	32	32
	mS	20	20	20	20	20	30	30	40	40	80	80	80	100	160	160	160	200	320	400	500	800	1000	1250	1600	2000	2500	3200	4000	5000
46	mA	16	20	25	32	40	33	42	53	50	63	53	50	63	51	50	63	63	50	50	50	40	40	40	40	32	32	31	32	32
	mS	20	20	20	20	20	30	30	40	40	80	80	80	100	160	160	160	200	320	400	500	800	1000	1250	1600	2000	2500	3200	4000	5000
48	mA	16	20	25	32	40	33	42	53	50	63	53	50	63	51	50	63	63	50	50	50	40	40	40	40	32	32	31	32	32
	mS	20	20	20	20	20	30	30	40	40	80	80	80	100	160	160	160	200	320	400	500	800	1000	1250	1600	2000	2500	3200	4000	5000
50	mA	16	20	25	32	40	33	42	53	50	63	53	50	63	51	50	63	63	50	50	50	40	40	40	40	32	32	31	32	
	mS	20	20	20	20	20	30	30	40	40	80	80	80	100	160	160	160	200	320	400	500	800	1000	1250	1600	2000	2500	3200	4000	
52	mA	16	20	25	32	40	33	42	53	50	63	53	50	63	51	50	63	63	50	50	50	40	40	40	40	32	32	31	32	
	mS	20	20	20	20	20	30	30	40	40	80	80	80	100	160	160	160	200	320	400	500	800	1000	1250	1600	2000	2500	3200	4000	
55	mA	16	20	25	32	40	33	42	53	50	63	53	50	63	51	50	63	63	50	50	50	40	40	40	40	32	32	31	32	
	mS	20	20	20	20	20	30	30	40	40	80	80	80	100	160	160	160	200	320	400	500	800	1000	1250	1600	2000	2500	3200	4000	
57	mA	16	20	25	32	40	33	42	53	50	63	53	50	63	51	50	63	63	50	50	50	40	40	40	40	32	32	31	32	
	mS	20	20	20	20	20	30	30	40	40	80	80	80	100	160	160	160	200	320	400	500	800	1000	1250	1600	2000	2500	3200	4000	
60	mA	16	20	25	32	40	33	42	53	50	63	53	50	63	51	50	63	63	50	50	50	40	40	40	40	32	32	31	32	
	mS	20	20	20	20	20	30	30	40	40	80	80	80	100	160	160	160	200	320	400	500	800	1000	1250	1600	2000	2500	3200	4000	
63	mA	16	20	25	32	40	33	42	53	50	63	53	50	63	51	50	63	63	50	50	50	40	40	40	40	32	32	31	32	
	mS	20	20	20	20	20	30	30	40	40	80	80	80	100	160	160	160	200	320	400	500	800	1000	1250	1600	2000	2500	3200	4000	
66	mA	16	20	25	32	40	33	42	53	50	63	53	50	63	51	50	63	63	50	50	50	40	40	40	40	32	32	31	32	
	mS	20	20	20	20	20	30	30	40	40	80	80	80	100	160	160	160	200	320	400	500	800	1000	1250	1600	2000	2500	3200	4000	
70	mA	16	20	25	32	40	33	42	53	50	63	53	50	63	51	50	63	63	50	50	50	40	40	40	40	32	32	31	32	
	mS	20	20	20	20	20	30	30	40	40	80	80	80	100	160	160	160	200	320	400	500	800	1000	1250	1600	2000	2500	3200	4000	
73	mA	16	20	25	32	40	33	42	53	50	63	53	50	63	51	50	63	63	50	50	50	40	40	40	40	32	32	31	32	
	mS	20	20	20	20	20	30	30	40	40	80	80	80	100	160	160	160	200	320	400	500	800	1000	1250	1600	2000	2500	3200	4000	
77	mA	16	20	25	32	40	33	42	53	50	63	53	50	63	51	50	63	63	50	50	50	40	40	40	40	32	32	31	32	
	mS	20	20	20	20	20	30	30	40	40	80	80	80	100	160	160	160	200	320	400	500	800	1000	1250	1600	2000	2500	3200	4000	
81	mA	16	20	25	32	40	33	42	53	50	63	53	50	63	51	50	63	63	50	50	50	40	40	40	40	32	32	31	32	
	mS	20	20	20	20	20	30	30	40	40	80	80	80	100	160	160	160	200	320	400	500	800	1000	1250	1600	2000	2500	3200	4000	
85	mA	16	20	25	32	40	33	42	53	50	63	53	50	63	51	50	63	63	50	50	50	40	40	40	40	32	32	31	32	
	mS	20	20	20	20	20	30	30	40	40	80	80	80	100	160	160	160	200	320	400	500	800	1000	1250	1600	2000	2500	3200	4000	
90	mA	16	20	25	32	40	33	42	53	50	63	53	50	63	51	50	63	63	50	50	50	40	40	40	40	32	32	31	32	
	mS	20	20	20	20	20	30	30	40	40	80	80	80	100	160	160	160	200	320	400	500	800	1000	1250	1600	2000	2500	3200	4000	
96	mA	16	20	25	32	40	33	42	53	50	63	53	50	63	51	50	63	63	50	50	50	40	40	40	40	32	32	31	32	
	mS	20	20	20	20	20	30	30	40	40	80	80	80	100	160	160	160	200	320	400	500	800	1000	1250	1600	2000	2500	3200	4000	
100	mA	16	20	25	32	40	33	42	53	50	63	53	50	63	51	50	63	63	50	50	50	40	40	40	40	32	32	31	32	
	mS	20	20	20	20	20	30	30	40	40	80	80	80	100	160	160	160	200	320	400	500	800	1000	1250	1600	2000	2500	3200	4000	

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